Checklist For Field Sampling and Analysis Plan

Site-Specific Investigation-Derived Waste Plan Checklist

This checklist supplements the Master IDW Plan with site-specific information. Once completed for a specific project, it provides necessary IDW information for each investigation. It is to be taken into the field with the Master IDW Plan.

Site	: AFWTF				
1.	IDW Media:	XPPE or	evelop tamina dispos	tion resi sable eq	dual soil and wastewater
2.	Expected Reg	gulatory Status:			dous Vaste
			X	_Other	Waste management activities regulated by OSHA Hazwoper standard (1910.120)
3.	Site Location:	Decontaminat	ion flui	ids and	PPE will be generated at all SWMUs.
4.	Nature of Co	ntaminants Exp	ected:	XXXXfrom p	Petroleum contamination Polyaromatic hydrocarbon Pesticides Herbicides PCBs Metals Other - Contaminant concentrations revious analytical results were very low for the above.
5.	Volume of IDW I	Expected:	X	Fluids,	

6.	Compositing Strategy for Sample Collection:	No IDW sampling planned. Will base disposal decisions on analytical results from sampling.
7.	IDW Storage	
	XAs per Master IDW Plan	_Other
8.	Waste Disposal	
	XAs per Master IDW Plan	Other

Site-Specific Quality Assurance Project Plan Checklist

This checklist supplements the Master QAPP with site-specific information. Once completed for a specific project, it provides necessary quality assurance information for each investigation. It is to be taken into the field with the Master QAPP.

Site: AFWTF

- 1. List sampling tasks: groundwater and subsurface soil sampling, surface soil sampling, and monitoring well installations.
- 2. List data quality objectives: The objective of the SWMU Investigation is to determine the need for further action at each of the SWMUs. Previous analytical data and the analytical data generated from the Investigation will be reviewed and a recommendation for no further action or additional investigation will be made based on the data.
- 3. Organization:

LANTDIV Navy Technical Representative Chris Penny / LANTDIV PREQB Federal Facilities Project Manager Aissa Colon/ PREQB

CH2M HILL Activity Manager

Quality Control Senior Review

Technical Project Manager

Field Team Leader

John Tomik / CH2M HILL

Kevin Sanders / CH2M HILL

Marty Clasen / CH2M HILL

Erik Isern / CH2M HILL

- 4. Table of samples with analyses to be performed and associated QC samples included in the SWMU Investigation Work Plan.
- 5. Analytical Quantitation Limits:

X____As per Master QAPP

Other

6. QA/QC Acceptance Criteria (e.g., precision, accuracy)

X____As per Master QAPP ____Other (attached)

7. Data reduction, validation, and reporting:

X____As per Master QAPP _____Other (attached)

8. Internal QC Procedures (field and laboratory):

	XAs per Master QAPP	Other (attached)
9.	Corrective Action:	
	XAs per Master QAPP	Other (attached)
10.	Other deviations from Master QA	PP - None

Site-Specific Field Sampling Plan Checklist

This checklist supplements the Master Field Sampling Plan with site-specific information. Once completed for a specific project, it provides necessary field sampling information for each investigation. It is to be taken into the field with the Master FSP.

Site: AFWTF

Geophysical surveys Soil gas surveys Surface water and sediment sampling Surface soil sampling Soil boring installation Subsurface soil sampling Monitoring well installation	<u>X</u>	In-situ groundwater sampling Aquifer testing Hydrogeologic measurements Biota sampling Trenching Land surveying
Surface water and sediment sampling Surface soil sampling Soil boring installation Subsurface soil sampling	<u>X</u>	Hydrogeologic measurements Biota sampling Trenching
sampling Surface soil sampling Soil boring installation Subsurface soil sampling	_	Biota sampling Trenching
Surface soil sampling Soil boring installation Subsurface soil sampling	·	Trenching
Soil boring installation Subsurface soil sampling	·	
Subsurface soil sampling	·	Land surveying
	X	
Monitoring well installation	<u></u>	Investigation derived waste
		sampling
and development	<u>X</u>	Decontamination
Monitoring well abandonment		Other
Groundwater sampling		
neasurements to be taken:		
temperature	<u>X</u>	surveying
pН	<u>X</u>	magnetometry
dissolved oxygen	<u>X</u>	global positioning system
turbidity		soil gas parameters (list):
specific conductance		combustible gases
organic vapor monitoring	X	water-level measurements
		pumping rate
electromagnetic induction		other
ground-penetrating radar		
ng program (nomenclature, etc.):		
0. 0	Other	
	Groundwater sampling neasurements to be taken: temperature pH dissolved oxygen turbidity specific conductance organic vapor monitoring geophysical parameters (list): electromagnetic induction ground-penetrating radar and program (nomenclature, etc.): As per Master FSP	Groundwater sampling neasurements to be taken: temperature

- VOC Sampling Water
- Field Filtering
- Chain-of-Custody
- Packaging and Shipping Procedures
- Field Rinse Blank Preparation
- Decontamination of Personnel and Equipment
- Disposal of Fluids and Solids
- $7. \quad \hbox{Site-specific procedures or updates to protocols established in the Master FSP:}$

Described in the Work Plan.

Site-Specific Health and Safety Plan

This checklist must be used in conjunction with the Master HASP. This checklist is intended for use by CH2M HILL employees only. All CH2M HILL employees performing tasks under this checklist must read and sign both this checklist and the Master HASP and agree to abide by their provisions (see EMPLOYEE SIGNOFF attached to the checklist.

Site: AFWTF

Location(s): SWMU Location Map and Individual SWMU figures are included in the Work Plan.

This document shall be maintained on site with the Master Health and Safety Plan. It will include as attachments from the Work Plan a site map and the site characterization and objectives for this site.

The procedures described in the Master Health and Safety Plan will be followed unless otherwise specified in this Site-Specific Health and Safety Plan.

HA	AZWOPER-Regulated Tasks	
	Test pit and excavation	XGroundwater sampling
X	Soil boring installation	Aquifer testing
X_	Geoprobe boring	X Hydrologic measurements
X_	Geophysical surveys	X Surface water sampling
	Hand augering	Biota sampling
X_	Subsurface soil sampling	XInvestigation-derived waste
X_	Surface soil sampling	(drum) sampling and disposal
	Soil gas surveys	Observation of loading of
	Sediment sampling	material for offsite disposal
	Monitoring well/drive point	Oversight of remediation and
	installation	construction
	Monitoring well abandonment	Other
	&S Plan for control measures): Heat stress	Confined space entry
		Trenches, excavations
	Cold stress	
	Buried utilities, drums, tanks	Protruding objects
	Inadequate illumination	XVehicle traffic
	Drilling	Ladders, scaffolds
	Heavy equipment	Fire
	Working near water	Working on water
		Snakes or insects
	Flying debris	
	Gas cylinders	XPoison ivy, oak, sumac
	Gas cylinders Noise	XPoison ivy, oak, sumac XTicks
	Gas cylinders	XPoison ivy, oak, sumac

PCBs	<u>Metals</u>	VOCs		
PNAs	SVOCs			
Personnel (List CH2M HIL	L field team members :			
Field team leader(s)	Erik Isern			
Site safety coordinator(s)	Erik Isern			
Field team members	Karen Karvazy, Emiliano	o Cabale, Hector Hernandez		
	Gabe Silva, Katie Swanso	on, Rick Gorsira		
Contractors/Subcontractors				
XProcedures as per Master HASP				
XOther				
Name: To be added				
Contact: To be added				
Telephone: To be added				
Refer to Table 5.1 of Master	e equipment (PPE) required r HASP, CH2M HILL SOPs ction 2 of the Site Safety Not	HS-07 and HS-08, and		
Air monitoring instruments to be used (refer to Master HSP for action levels):				
XOVM 10.6	FID			
CGI	Dust mon	itor		
$\underline{\hspace{1cm}} O_2$				
Decontamination procedures:				
As per Section 7 of Master HASP				
XOther As described in the SWMU Investigation Work Plan.				

9.	List any other deviations or variations from the Master HASP: None
10.	Emergency Response (Check that all names and numbers are correct on page 47 of Master HASP and attach corrected page to this checklist)
11.	Map to hospital (Highlight route to hospital from site and attach to this checklist)
12.	Emergency Contacts (Check that all names and numbers are correct on page 49 of Master HASP and attach corrected page to this checklist)
13.	Approval. This prepared site-specific checklist must be approved by John Longo/NJO or Laura Johnson/NJO or their authorized representative
	NameTitle: Health and Safety Manager Date:
	(Signature will be included in the Final HASP)

14. Employee Signoff. All CH2M HILL employees working at the site must sign the attached Employee Signoff for the checklist as well as for the Master HASP.

	Site
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HASP Checklist Employee Signoff

The employees listed below have been given a copy of both this health and safety plan checklist and the Master HSP, have read and understood them, and agree to abide by their provisions.

EMPLOYEE NAME	EMPLOYEE SIGNATURE AND DATE